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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/073,793	02/11/2002	Chul-Ho Lim	66778/RSM	4360

7590

03/22/2004

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New York, NY 10036

EXAMINER
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NGUYEN, KEVIN M

ART UNIT	PAPER NUMBER
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2674

DATE MAILED: 03/22/2004

7

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

**Application No.**

10/073,793

**Applicant(s)**

LIM ET AL.

**Examiner**

Kevin M. Nguyen

**Art Unit**

2674

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 08 March 2004.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1 and 4 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1 and 4 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 04 June 2002 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some \* c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_.
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_.

**DETAILED ACTION**

1. The amendment filed on 03/08/2004 is entered. The remarks has been fully considered but they are not persuasive. The rejections of claims 1 and 4 are maintained.

***Claim Rejections - 35 USC § 103***

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 1 and 4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yang et al (US 6,606,088) in view of Boehme et al (US 6,512,670).

As to claim 1, Yang teaches a flat panel display device comprising

[recited in lines 3-18 of claim 1]

a flat panel module 20 (fig. 2), a column driver 24 (fig. 2), a row driver 22 (fig. 2), a buffer 162a (fig. 5), inherently a timing controller (based on the clock MCLK, fig. 1).

[recited in lines 25-35 of claim 1]

a third connector (D-SUB connector 125, fig. 3), and analog image signal V3 (fig. 3), an analog/digital converter 126 (fig. 3), an image processor comprises a video decoder 122 (fig. 3) and ADC 126 (fig. 3), a low voltage differential signaling unit 124 (fig. 3) reduce electromagnetic waves (col. 1, lines 30-34), a main circuit unit MCU 14 (fig. 2).

Yang et al teaches all of the claimed limitations of claim 1, except for a first connector, a second connector, a replaceable modular system board, a chassis, an insertion slot.

However, Boehme et al teaches a flat panel display comprising a first connector (video signal cable to LCD display 28, fig. 6), a second connector (power cables from CPU 25, and Video signal cables from CPU 26, fig. 6), an insertion slot 22 (fig. 6), a chassis of the CPU 12 (fig. 5); the replaceable modular system board comprises the laptop computer, the camcorder, the portable DVD player (figs. 6, 13A, 16, col. 5, lines 35-61).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time of the invention to modify Yang's modular system board including the first connector 28, the second connectors 25, 26, the insertion slot 22, the chassis of the CPU 12; the replaceable modular system board comprises the laptop computer, the camcorder, the portable DVD player (figs. 6, 13A, 16, col. 5, lines 35-61), in view of the teaching in the Boehme's reference because this would provide a display unit for portable devices which is field replaceable and can be interchanged rapidly as taught by Boehme (col. 1, lines 25-27), while becoming a consumer field replaceable unit at low cost and timing to service as taught by Boehme (col. 1, lines 46-47).

As to claim 4, Boehme et al teaches the replaceable modular system board comprising the laptop computer, the camcorder, the portable DVD player (figs. 6, 13A, 16, col. 5, lines 35-61).

***Response to Arguments***

4. Applicant's arguments filed 03/082004 have been fully considered but they are not persuasive.

In response to applicant's argument that claim 1 recites "a first connector, a second connector, a replaceable modular system board, a chassis, an insertion slot." This argument is not persuasive because Boehme's invention teaches the first connector (video signal cable to LCD display 28, fig. 6), the second connector (power cables from CPU 25, and Video signal cables from CPU 26, fig. 6), the insertion slot 22 (fig. 6), the chassis of the CPU 12 (fig. 5); the replaceable modular system board comprises the laptop computer, the camcorder, the portable DVD player (figs. 6, 13A, 16, col. 5, lines 35-61).

For these reasons, the rejections based on Yang et al and Boehme et al have been maintained.

***Conclusion***

5. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the

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shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to **Kevin M. Nguyen** whose telephone number is **703-305-6209**. The examiner can normally be reached on MON-THU from 9:00-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, **Richard A Hjerpe** can be reached on **703-305-4709**.

**Any response to this action should be mailed to:**

Commissioner of Patents and Trademarks

Washington, D.C. 20231

**or faxed to:**

**(703) 872-9306 (for Technology Center 2600 only)**

Hand-delivered response should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA, Sixth floor (Receptionist).

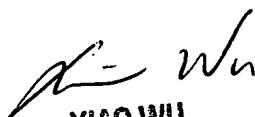
Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is (703) 306-0377.

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Kevin M. Nguyen  
Patent Examiner  
Art Unit 2674

KN  
March 21, 2004

  
XIAO WU  
PRIMARY EXAMINER